

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	0	aplysia adj punctata and cid adj oxidase	US-PGPUB; USPAT; DERWENT	OR	ON	2006/06/23 12:49
L2	2	aplysia adj punctata and acid adj oxidase	US-PGPUB; USPAT; DERWENT	OR	ON	2006/06/23 12:52
L3	0	aplysia? and acid adj oxidase	US-PGPUB; USPAT; DERWENT	OR	ON	2006/06/23 12:52
L4	7	aplysia and acid adj oxidase	US-PGPUB; USPAT; DERWENT	OR	ON	2006/06/23 12:53

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NEWS	2		"Ask CAS" for self-help around the clock
NEWS	3	JAN 17	Pre-1988 INPI data added to MARPAT
NEWS	4	FEB 21	STN AnaVist, Version 1.1, lets you share your STN AnaVist visualization results
NEWS	5	FEB 22	The IPC thesaurus added to additional patent databases on STN
NEWS	6	FEB 22	Updates in EPFULL; IPC 8 enhancements added
NEWS	7	FEB 27	New STN AnaVist pricing effective March 1, 2006
NEWS	8	MAR 03	Updates in PATDPA; addition of IPC 8 data without attributes
NEWS	9	MAR 22	EMBASE is now updated on a daily basis
NEWS	10	APR 03	New IPC 8 fields and IPC thesaurus added to PATDPAFULL
NEWS	11	APR 03	Bibliographic data updates resume; new IPC 8 fields and IPC thesaurus added in PCTFULL
NEWS	12	APR 04	STN AnaVist \$500 visualization usage credit offered
NEWS	13	APR 12	LINSPEC, learning database for INSPEC, reloaded and enhanced
NEWS	14	APR 12	Improved structure highlighting in FQHIT and QHIT display in MARPAT
NEWS	15	APR 12	Derwent World Patents Index to be reloaded and enhanced during second quarter; strategies may be affected
NEWS	16	MAY 10	CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS	17	MAY 11	KOREAPAT updates resume
NEWS	18	MAY 19	Derwent World Patents Index to be reloaded and enhanced
NEWS	19	MAY 30	IPC 8 Rolled-up Core codes added to CA/CAPLUS and USPATFULL/USPAT2
NEWS	20	MAY 30	The F-Term thesaurus is now available in CA/CAPLUS
NEWS	21	JUN 02	The first reclassification of IPC codes now complete in INPADOC
NEWS EXPRESS			FEBRUARY 15 CURRENT VERSION FOR WINDOWS IS V8.01a, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 19 DECEMBER 2005. V8.0 AND V8.01 USERS CAN OBTAIN THE UPGRADE TO V8.01a AT <a href="http://download.cas.org/express/v8.0-Discover/">http://download.cas.org/express/v8.0-Discover/</a>
NEWS HOURS			STN Operating Hours Plus Help Desk Availability
NEWS LOGIN			Welcome Banner and News Items
NEWS IPC8			For general information regarding STN implementation of IPC 8
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FILE 'MEDLINE' ENTERED AT 14:14:22 ON 23 JUN 2006

FILE 'AGRICOLA' ENTERED AT 14:14:22 ON 23 JUN 2006

FILE 'JICST-EPLUS' ENTERED AT 14:14:22 ON 23 JUN 2006

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FILE 'BIOTECHNO' ENTERED AT 14:14:22 ON 23 JUN 2006

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FILE 'EMBASE' ENTERED AT 14:14:22 ON 23 JUN 2006

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=> s aplysia and acid (w) oxidase

L1 28 APLYSIA AND ACID (W) OXIDASE

=> s l1 and punctata

L2 6 L1 AND PUNCTATA

=> d ibib abs l2 1-6

L2 ANSWER 1 OF 6 MEDLINE on STN

ACCESSION NUMBER: 2005484958 MEDLINE

DOCUMENT NUMBER: PubMed ID: 16153453

TITLE: Cloning and biochemical characterization of APIT, a new  
l-amino acid oxidase from

*Aplysia punctata*.

AUTHOR: Butzke Daniel; Hurwitz Robert; Thiede Bernd; Goedert  
Sigrid; Rudel Thomas

CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute for  
Infection Biology, Schumannstr. 21/22, D-10117 Berlin,  
Germany.

SOURCE: Toxicon : official journal of the International Society on  
Toxinology, (2005 Oct) Vol. 46, No. 5, pp. 479-89.  
Journal code: 1307333. ISSN: 0041-0101.

PUB. COUNTRY: England: United Kingdom

DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)

LANGUAGE: English

FILE SEGMENT: Priority Journals

ENTRY MONTH: 200602

ENTRY DATE: Entered STN: 13 Sep 2005

Last Updated on STN: 8 Feb 2006

Entered Medline: 7 Feb 2006

AB The purple ink of the sea hare *Aplysia punctata* contains a 60 kDa protein with tumoricidal activity. This *A. punctata* ink toxin (APIT) kills tumor cells within 6--8h in an apoptosis independent manner by the production of high amounts of hydrogen peroxide which induce a necrotic form of oxidative stress. Here, we describe the biochemical features of APIT associated with its anti-tumor activity. APIT is a weakly glycosylated FAD-binding L-amino acid oxidase that catalyzes the oxidative deamination of L-lysine and L-arginine and thereby produces hydrogen peroxide ( $H_2O_2$ ), ammonia ( $NH_4^+$ ) and the corresponding alpha-keto acids. The tumoricidal effect is completely abrogated in the absence of the amino acids L-lysine and L-arginine. The enzyme is stable at temperatures from 0 to 50 degrees C. Similar to other FAD-binding enzymes, it is resistant against tryptic digest. Even digest with proteinase K fails to degrade the enzyme. Cloning of the APIT gene and subsequent sequencing revealed a FAD-binding domain followed by a so-called GG-motif, which is typical for L-amino acid oxidases. Strongest homology exists to escapin, aplysianin A precursor, the cyplasins L and S and achacin.

L2 ANSWER 2 OF 6 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2006:38210 BIOSIS  
DOCUMENT NUMBER: PREV200600042025  
TITLE: Cloning and biochemical characterization of APIT, a new  
L-amino acid oxidase from  
*Aplysia punctata*.  
AUTHOR(S): Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd; Goedert,  
Sigrid; Rudel, Thomas [Reprint Author]  
CORPORATE SOURCE: Max Planck Inst Infect Biol, Dept Mol Biol, Schumannstr  
21-22, D-10117 Berlin, Germany  
rudel@mpiib-berlin.mpg.de  
SOURCE: Toxicon, (OCT 2005) Vol. 46, No. 5, pp. 479-489.  
CODEN: TOXIA6. ISSN: 0041-0101.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Dec 2005  
Last Updated on STN: 28 Dec 2005

AB The purple ink of the sea hare *Aplysia punctata* contains a 60 kDa protein with tumoricidal activity. This *A. punctata* ink toxin (APIT) kills tumor cells within 6-8 h in an apoptosis independent manner by the production of high amounts of hydrogen peroxide which induce a necrotic form of oxidative stress. Here, we describe the biochemical features of APIT associated with its anti-tumor activity. APIT is a weakly glycosylated FAD-binding L-amino acid oxidase that catalyzes the oxidative deamination Of L-lysine and L-arginine and thereby produces hydrogen peroxide ( $H_2O_2$ ), ammonia ( $NH_4^+$ ) and the corresponding a-keto acids. The tumoricidal effect is completely abrogated in the absence of the amino acids L-lysine and L-arginine. The enzyme is stable at temperatures from 0 to 50 degrees C. Similar to other FAD-binding enzymes, it is resistant against tryptic digest. Even digest with proteinase K fails to degrade the enzyme. Cloning of the APIT gene and subsequent sequencing revealed a FAD-binding domain followed by a so-called GG-motif, which is typical for L-amino acid oxidases. Strongest homology exists to escapin, aplysianin A precursor, the cyplasins L and S and achacin. (c) 2005 Elsevier Ltd. All rights reserved.

L2 ANSWER 3 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2005:980597 CAPLUS  
DOCUMENT NUMBER: 143:320451  
TITLE: Cloning and biochemical characterization of APIT, a  
new L-amino acid oxidase from  
*Aplysia punctata*  
AUTHOR(S): Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd;  
Goedert, Sigrid; Rudel, Thomas

CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute  
for Infection Biology, Berlin, D-10117, Germany  
SOURCE: Toxicon (2005), 46(5), 479-489  
CODEN: TOXIA6; ISSN: 0041-0101  
PUBLISHER: Elsevier Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English

AB The purple ink of the sea hare *Aplysia punctata* contains a 60 kDa protein with tumoricidal activity. This *A. punctata* ink toxin (APIT) kills tumor cells within 6-8 h in an apoptosis independent manner by the production of high amts. of hydrogen peroxide which induce a necrotic form of oxidative stress. Here, we describe the biochem. features of APIT associated with its anti-tumor activity. APIT is a weakly glycosylated FAD-binding L-amino acid oxidase that catalyzes the oxidative deamination of L-lysine and L-arginine and thereby produces hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>), ammonia (NH<sub>4</sub>) and the corresponding  $\alpha$ -keto acids. The tumoricidal effect is completely abrogated in the absence of the amino acids L-lysine and L-arginine. The enzyme is stable at temps. from 0 to 50°. Similar to other FAD-binding enzymes, it is resistant against tryptic digest. Even digest with proteinase K fails to degrade the enzyme. Cloning of the APIT gene and subsequent sequencing revealed a FAD-binding domain followed by a so-called GG-motif, which is typical for L-amino acid oxidases. Strongest homol. exists to escapin, aplysianin A precursor, the cyplasins L and S and achacin.

REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L2 ANSWER 4 OF 6 CAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2004:633950 CAPLUS  
DOCUMENT NUMBER: 141:169975  
TITLE: Purification, cloning and characterization of L-amino acid oxidase with cytotoxic activity from *Aplysia punctata* and use for the diagnosis and treatment of cancer  
INVENTOR(S): Butzke, Daniel; Goedert, Sigrid; Dittrich, Michael; Rudel, Thomas; Meyer, Thomas F.  
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft Zur Foerderung Der Wissenschaften E.V., Germany  
SOURCE: PCT Int. Appl., 125 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004065415	A2	20040805	WO 2004-EP423	20040120
WO 2004065415	A3	20050120		
W:	AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI			
EP 1585761	A2	20051019	EP 2004-703388	20040120
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
PRIORITY APPLN. INFO.:			EP 2003-1232	A 20030120
			EP 2003-26613	A 20031119
			WO 2004-EP423	W 20040120

AB The present invention relates to a cytotoxic polypeptide which is an

L-amino acid oxidase isolated from the ink of the sea hare *Aplysia punctata* via anion exchange chromatog. and gel filtration. The polypeptide is termed APIT (*Aplysia punctata* ink toxin). Tumor cells treated with APIT displays a morphol. which is neither typical for apoptosis nor for necrosis but rather is typical for oxidative damage induced cell death. The cDNA sequence and the encoded amino acid sequence of APIT isoforms are provided. The toxic and enzymic activity of APIT is due to the presence of an attached FAD. It was demonstrated that the cytotoxic activity depended on the H<sub>2</sub>O<sub>2</sub> producing enzymic activity of APIT. From all amino acids tested only L-lysine and L-arginine served as substrates for APIT to produce hydrogen peroxide. Sensitivity of different tumor cell lines to APIT induced cell death was studied. Change in protein expression pattern in Jurkat T cells after treatment with APIT was investigated. The influence of APIT on the gene expression of tumor cells was investigated by Microarray technol. It was shown that healthy human cells are resistant against the APIT-induced cell death. APIT can be used for the manufacture of a medicament for the diagnosis and treatment of cancer.

L2 ANSWER 5 OF 6 LIFESCI COPYRIGHT 2006 CSA on STN

ACCESSION NUMBER: 2006:50133 LIFESCI

TITLE: Cloning and biochemical characterization of APIT, a new l-amino acid oxidase from *Aplysia punctata*

AUTHOR: Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd; Goedert, Sigrid; Rudel, Thomas

CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute for Infection Biology, Schumannstr. 21/22, D-10117 Berlin, Germany; E-mail: rudel@mpiib-berlin.mpg.de

SOURCE: Toxicon, (20051000) vol. 46, no. 5, pp. 479-489. ISSN: 0041-0101.

DOCUMENT TYPE: Journal

FILE SEGMENT: X

LANGUAGE: English

SUMMARY LANGUAGE: English

AB The purple ink of the sea hare *Aplysia punctata* contains a 60 kDa protein with tumoricidal activity. This *A. punctata* ink toxin (APIT) kills tumor cells within 6-8 h in an apoptosis independent manner by the production of high amounts of hydrogen peroxide which induce a necrotic form of oxidative stress. Here, we describe the biochemical features of APIT associated with its anti-tumor activity. APIT is a weakly glycosylated FAD-binding l-amino acid oxidase that catalyzes the oxidative deamination of l-lysine and l-arginine and thereby produces hydrogen peroxide (H sub(2)O sub(2)), ammonia [image] and the corresponding alpha -keto acids. The tumoricidal effect is completely abrogated in the absence of the amino acids l-lysine and l-arginine. The enzyme is stable at temperatures from 0 to 50 not equal to . Similar to other FAD-binding enzymes, it is resistant against tryptic digest. Even digest with proteinase K fails to degrade the enzyme. Cloning of the APIT gene and subsequent sequencing revealed a FAD-binding domain followed by a so-called GG-motif, which is typical for l-amino acid oxidases. Strongest homology exists to escapin, aplysianin A precursor, the cyplasins L and S and achacin.

L2 ANSWER 6 OF 6 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights reserved on STN

ACCESSION NUMBER: 2005402427 EMBASE

TITLE: Cloning and biochemical characterization of APIT, a new L-amino acid oxidase from *Aplysia punctata*.

AUTHOR: Butzke D.; Hurwitz R.; Thiede B.; Goedert S.; Rudel T.

CORPORATE SOURCE: T. Rudel, Department of Molecular Biology, Max Planck Institute for Infection Biology, Schumannstr. 21/22, D-10117 Berlin, Germany. rudel@mpiib-berlin.mpg.de

AB The purple ink of the sea hare *Aplysia punctata* contains a 60 kDa protein with tumoricidal activity. This *A. punctata* ink toxin (APIT) kills tumor cells within 6-8 h in an apoptosis independent manner by the production of high amounts of hydrogen peroxide which induce a necrotic form of oxidative stress. Here, we describe the biochemical features of APIT associated with its anti-tumor activity. APIT is a weakly glycosylated FAD-binding l-amino acid oxidase that catalyzes the oxidative deamination of l-lysine and l-arginine and thereby produces hydrogen peroxide ( $H_2O_2$ ), ammonia ( $NH_4^+$ ) and the corresponding  $\alpha$ -keto acids. The tumoricidal effect is completely abrogated in the absence of the amino acids l-lysine and l-arginine. The enzyme is stable at temperatures from 0 to 50°C. Similar to other FAD-binding enzymes, it is resistant against tryptic digest. Even digest with proteinase K fails to degrade the enzyme. Cloning of the APIT gene and subsequent sequencing revealed a FAD-binding domain followed by a so-called GG-motif, which is typical for l-amino acid oxidases. Strongest homology exists to escapin, aplysianin A precursor, the cyplasins L and S and achacin. .COPYRGHT. 2005 Elsevier Ltd. All rights reserved.

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L1  ANSWER 1 OF 28      MEDLINE on STN
ACCESSION NUMBER:      2006003581      MEDLINE
DOCUMENT NUMBER:      PubMed ID: 16290235
TITLE:      Drug discovery and sea hares: bigger is better.
AUTHOR:      Barsby Todd
CORPORATE SOURCE:      Faculty of Science, University of Ontario Institute of
                        Technology, 2000 Simcoe Street North, Oshawa, ON L1H 7K4,
                        Canada.. todd.barsby@uoit.ca
SOURCE:      Trends in biotechnology, (2006 Jan) Vol. 24, No. 1, pp.
                        1-3. Electronic Publication: 2005-11-14.
                        Journal code: 8310903. ISSN: 0167-7799.
PUB. COUNTRY:      England: United Kingdom
DOCUMENT TYPE:      Journal; Article; (JOURNAL ARTICLE)
LANGUAGE:      English
FILE SEGMENT:      Priority Journals
ENTRY MONTH:      200602
ENTRY DATE:      Entered STN: 4 Jan 2006
                        Last Updated on STN: 1 Mar 2006
                        Entered Medline: 28 Feb 2006
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L1 ANSWER 2 OF 28 MEDLINE on STN  
ACCESSION NUMBER: 2005667108 IN-PROCESS  
DOCUMENT NUMBER: PubMed ID: 16354780  
TITLE: Packaging of chemicals in the defensive secretory glands of  
the sea hare *Aplysia californica*.  
AUTHOR: Johnson Paul M; Kicklighter Cynthia E; Schmidt Manfred;  
Kamio Michiya; Yang Hsiuchin; Elkin Dimitry; Michel William  
C; Tai Phang C; Derby Charles D

CORPORATE SOURCE: Department of Biology, Center for Behavioral Neuroscience,  
and Brains and Behavior Program, Georgia State University,  
Atlanta, GA 30303 USA.  
CONTRACT NUMBER: GM-34766 (NIGMS)  
SOURCE: The Journal of experimental biology, (2006 Jan) Vol. 209,  
No. Pt 1, pp. 78-88.  
Journal code: 0243705. ISSN: 0022-0949.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: NONMEDLINE; IN-PROCESS; NONINDEXED; Priority Journals  
ENTRY DATE: Entered STN: 20 Dec 2005  
Last Updated on STN: 3 Feb 2006

L1 ANSWER 3 OF 28 MEDLINE on STN  
ACCESSION NUMBER: 2005484958 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 16153453  
TITLE: Cloning and biochemical characterization of APIT, a new  
l-amino acid oxidase from  
Aplysia punctata.  
AUTHOR: Butzke Daniel; Hurwitz Robert; Thiede Bernd; Goedert  
Sigrid; Rudel Thomas  
CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute for  
Infection Biology, Schumannstr. 21/22, D-10117 Berlin,  
Germany.  
SOURCE: Toxicon : official journal of the International Society on  
Toxinology, (2005 Oct) Vol. 46, No. 5, pp. 479-89.  
Journal code: 1307333. ISSN: 0041-0101.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200602  
ENTRY DATE: Entered STN: 13 Sep 2005  
Last Updated on STN: 8 Feb 2006  
Entered Medline: 7 Feb 2006

L1 ANSWER 4 OF 28 MEDLINE on STN  
ACCESSION NUMBER: 2005484133 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 16155232  
TITLE: Cloning, characterization and expression of escapin, a  
broadly antimicrobial FAD-containing L-amino acid  
oxidase from ink of the sea hare Aplysia  
californica.  
AUTHOR: Yang Hsiuchin; Johnson Paul Micah; Ko Ko-Chun; Kamio  
Michiya; Germann Markus W; Derby Charles D; Tai Phang C  
CORPORATE SOURCE: Department of Biology, Georgia State University, Atlanta,  
GA 30302-4010, USA.  
CONTRACT NUMBER: GM-34766 (NIGMS)  
SOURCE: The Journal of experimental biology, (2005 Sep) Vol. 208,  
No. Pt 18, pp. 3609-22.  
Journal code: 0243705. ISSN: 0022-0949.  
PUB. COUNTRY: England: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 200603  
ENTRY DATE: Entered STN: 13 Sep 2005  
Last Updated on STN: 17 Mar 2006  
Entered Medline: 16 Mar 2006

L1 ANSWER 5 OF 28 MEDLINE on STN  
ACCESSION NUMBER: 93188639 MEDLINE  
DOCUMENT NUMBER: PubMed ID: 8446003



TITLE: Occurrence of free D-aspartic acid in the  
circumoesophageal ganglia of *Aplysia fasciata*.  
AUTHOR: D'Aniello A; Nardi G; Vetere A; Ferguson G P  
CORPORATE SOURCE: Department of Biochemistry, Stazione Zoologica A. Dohrn,  
Napoli, Italy.  
SOURCE: Life sciences, (1993) Vol. 52, No. 8, pp. 733-6.  
Journal code: 0375521. ISSN: 0024-3205.  
PUB. COUNTRY: ENGLAND: United Kingdom  
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)  
LANGUAGE: English  
FILE SEGMENT: Priority Journals  
ENTRY MONTH: 199304  
ENTRY DATE: Entered STN: 16 Apr 1993  
Last Updated on STN: 3 Feb 1997  
Entered Medline: 6 Apr 1993

L1 ANSWER 6 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2006:255046 BIOSIS  
DOCUMENT NUMBER: PREV200600261834  
TITLE: Drug discovery and sea hares: bigger is better.  
AUTHOR(S): Barsby, Todd [Reprint Author]  
CORPORATE SOURCE: Univ Ontario, Inst Technol, Fac Sci, 2000 Simcoe St N,  
Oshawa, ON L1H 7K4, Canada  
todd.barsby@uoit.ca  
SOURCE: Trends in Biotechnology, (JAN 2006) Vol. 24, No. 1, pp.  
1-3.  
CODEN: TRBIDM. ISSN: 0167-7799.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 3 May 2006  
Last Updated on STN: 3 May 2006

L1 ANSWER 7 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2006:242722 BIOSIS  
DOCUMENT NUMBER: PREV200600239663  
TITLE: Packaging of chemicals in the defensive secretory glands of  
the sea hare *Aplysia californica*.  
AUTHOR(S): Johnson, Paul M.; Kicklighter, Cynthia E.; Schmidt,  
Manfred; Kamio, Michiya; Yang, Hsiuchin; Elkin, Dimitry;  
Michel, William C.; Tai, Phang C.; Derby, Charles D.  
[Reprint Author]  
CORPORATE SOURCE: Georgia State Univ, Dept Biol, Ctr Behav Neurosci, Atlanta,  
GA 30303 USA  
cderby@gsu.edu  
SOURCE: Journal of Experimental Biology, (JAN 2006) Vol. 209, No.  
1, pp. 78-88.  
CODEN: JEBIAM. ISSN: 0022-0949.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 19 Apr 2006  
Last Updated on STN: 19 Apr 2006

L1 ANSWER 8 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2006:38210 BIOSIS  
DOCUMENT NUMBER: PREV200600042025  
TITLE: Cloning and biochemical characterization of APIT, a new  
L-amino acid oxidase from  
*Aplysia punctata*.  
AUTHOR(S): Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd; Goedert,  
Sigrid; Rudel, Thomas [Reprint Author]  
CORPORATE SOURCE: Max Planck Inst Infect Biol, Dept Mol Biol, Schumannstr  
21-22, D-10117 Berlin, Germany  
rudel@mpiib-berlin.mpg.de  
SOURCE: Toxicon, (OCT 2005) Vol. 46, No. 5, pp. 479-489.

CODEN: TOXIA6. ISSN: 0041-0101.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 28 Dec 2005  
Last Updated on STN: 28 Dec 2005

L1 ANSWER 9 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on STN  
ACCESSION NUMBER: 2006:25873 BIOSIS  
DOCUMENT NUMBER: PREV200600022671  
TITLE: Cloning, characterization and expression of escapin, a  
broadly antimicrobial FAD-containing L-amino acid  
oxidase from ink of the sea hare *Aplysia*  
*californica*.  
AUTHOR(S): Yang, Hsiuchin [Reprint Author]; Johnson, Paul Micah; Ko,  
Ko-Chun; Kamio, Michiya; Germann, Markus W.; Derby, Charles  
D.; Tai, Phang C.  
CORPORATE SOURCE: Georgia State Univ, Dept Biol, POB 4010, Atlanta, GA 30302  
USA  
cderby@gsu.edu  
SOURCE: Journal of Experimental Biology, (SEP 2005) Vol. 208, No.  
18, pp. 3609-3622.  
CODEN: JEBIAM. ISSN: 0022-0949.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 21 Dec 2005  
Last Updated on STN: 21 Dec 2005

L1 ANSWER 10 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2004:198771 BIOSIS  
DOCUMENT NUMBER: PREV200400199330  
TITLE: Escapin: an antipredator protein in the defensive secretion  
of *Aplysia*.  
AUTHOR(S): Johnson, P. M. [Reprint Author]; Yang, H. [Reprint Author];  
Tai, P. C. [Reprint Author]; Derby, C. D. [Reprint Author]  
CORPORATE SOURCE: Biol., Georgia State Univ., Atlanta, GA, USA  
SOURCE: Society for Neuroscience Abstract Viewer and Itinerary  
Planner, (2003) Vol. 2003, pp. Abstract No. 403.8.  
<http://sfn.scholarone.com>. e-file.  
Meeting Info.: 33rd Annual Meeting of the Society of  
Neuroscience. New Orleans, LA, USA. November 08-12, 2003.  
Society of Neuroscience.  
DOCUMENT TYPE: Conference; (Meeting)  
Conference; Abstract; (Meeting Abstract)  
LANGUAGE: English  
ENTRY DATE: Entered STN: 14 Apr 2004  
Last Updated on STN: 14 Apr 2004

L1 ANSWER 11 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 2004:101570 BIOSIS  
DOCUMENT NUMBER: PREV200400102538  
TITLE: Characterization of L-amino acid oxidase  
and antimicrobial activity of aplysianin A, a sea  
hare-derived antitumor-antimicrobial protein.  
AUTHOR(S): Jimbo, Mitsuru [Reprint Author]; Nakanishi, Fumie; Sakai,  
Ryuichi; Muramoto, Koji; Kamiya, Hisao  
CORPORATE SOURCE: Department of Marine Biochemistry, School of Fisheries  
Sciences, Kitasato University, Ofunato, Iwate, 022-0101,  
Japan  
mjimbo@kitasato-u.ac.jp  
SOURCE: Fisheries Science (Tokyo), (December 2003) Vol. 69, No. 6,  
pp. 1240-1246. print.  
ISSN: 0919-9268.

DOCUMENT TYPE: Article  
LANGUAGE: English  
OTHER SOURCE: DDBJ-AJ400871; EMBL-AJ400871; GenBank-AJ400871;  
SwissProt-D83255; SwissProt-P81382  
ENTRY DATE: Entered STN: 18 Feb 2004  
Last Updated on STN: 18 Feb 2004

L1 ANSWER 12 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 1993:184067 BIOSIS  
DOCUMENT NUMBER: PREV199395094517  
TITLE: Occurrence of free D-aspartic acid in circumoesophageal  
ganglia of *Aplysia fasciata*.  
AUTHOR(S): D'Aniello, Antimo [Reprint author]; Nardi, Giovanna;  
Vetere, Amedeo; Ferguson, Graham P.  
CORPORATE SOURCE: Dep. Biochemistry, Stazione Zoologica "Anton Dohrn", Villa  
Comunale, 80121 Napoli, Italy  
SOURCE: Life Sciences, (1993) Vol. 52, No. 8, pp. 733-736.  
CODEN: LIFSAK. ISSN: 0024-3205.  
DOCUMENT TYPE: Article  
LANGUAGE: English  
ENTRY DATE: Entered STN: 9 Apr 1993  
Last Updated on STN: 10 Apr 1993

L1 ANSWER 13 OF 28 BIOSIS COPYRIGHT (c) 2006 The Thomson Corporation on  
STN  
ACCESSION NUMBER: 1979:187543 BIOSIS  
DOCUMENT NUMBER: PREV197967067543; BA67:67543  
TITLE: PRESENCE OF D ASPARTATE IN SQUID AXOPLASM AND IN OTHER  
REGIONS OF THE CEPHALOPOD NERVOUS SYSTEM.  
AUTHOR(S): D'ANIELLO A [Reprint author]; DIUDITTA A  
CORPORATE SOURCE: ZOOL STN INT, INST GENET, BIOPHYS, NAPLES, ITALY  
SOURCE: Journal of Neurochemistry, (1978) Vol. 31, No. 4, pp.  
1107-1108.  
CODEN: JONRA9. ISSN: 0022-3042.  
DOCUMENT TYPE: Article  
FILE SEGMENT: BA  
LANGUAGE: ENGLISH

L1 ANSWER 14 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2006:217116 CAPLUS  
DOCUMENT NUMBER: 144:288405  
TITLE: Cloning, characterization and use of escapin, a  
broadly antimicrobial FAD-containing L-amino  
acid oxidase from ink of the sea  
hare *Aplysia californica*  
INVENTOR(S): Johnson, Paul Micah; Yang, Hsiuchin; Derby, Charles  
D.; Tai, Phang C.  
PATENT ASSIGNEE(S): USA  
SOURCE: U.S. Pat. Appl. Publ., 40 pp.  
CODEN: USXXCO  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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US 2006051337	A1	20060309	US 2005-100328	20050406
PRIORITY APPLN. INFO.:			US 2004-561115P	P 20040409

L1 ANSWER 15 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2006:162186 CAPLUS  
DOCUMENT NUMBER: 144:484965

TITLE: Packaging of chemicals in the defensive secretory glands of the sea hare *Aplysia californica*  
 AUTHOR(S): Johnson, Paul M.; Kicklighter, Cynthia E.; Schmidt, Manfred; Kamio, Michiya; Yang, Hsiuchin; Elkin, Dimitry; Michel, William C.; Tai, Phang C.; Derby, Charles D.  
 CORPORATE SOURCE: Department of Biology, Center for Behavioral Neuroscience, Brains and Behavior Program, Georgia State University, Atlanta, GA, 30303, USA  
 SOURCE: Journal of Experimental Biology (2006), 209(1), 78-88  
 CODEN: JEBIAM; ISSN: 0022-0949  
 PUBLISHER: Company of Biologists Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 16 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2006:21481 CAPLUS  
 DOCUMENT NUMBER: 144:204999  
 TITLE: Drug discovery and sea hares: bigger is better  
 AUTHOR(S): Barsby, Todd  
 CORPORATE SOURCE: Faculty of Science, University of Ontario Institute of Technology, Oshawa, ON, L1H 7K4, Can.  
 SOURCE: Trends in Biotechnology (2006), 24(1), 1-3  
 CODEN: TRBIDM; ISSN: 0167-7799  
 PUBLISHER: Elsevier Ltd.  
 DOCUMENT TYPE: Journal; General Review  
 LANGUAGE: English  
 REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 17 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2005:1191013 CAPLUS  
 DOCUMENT NUMBER: 144:125253  
 TITLE: Cloning, characterization and expression of escapin, a broadly antimicrobial FAD-containing L-amino acid oxidase from ink of the sea hare *Aplysia californica*  
 AUTHOR(S): Yang, Hsiuchin; Johnson, Paul Micah; Ko, Ko-Chun; Kamio, Michiya; Germann, Markus W.; Derby, Charles D.; Tai, Phang C.  
 CORPORATE SOURCE: Department of Biology, Georgia State University, Atlanta, GA, 30302-4010, USA  
 SOURCE: Journal of Experimental Biology (2005), 208(18), 3609-3622  
 CODEN: JEBIAM; ISSN: 0022-0949  
 PUBLISHER: Company of Biologists Ltd.  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 REFERENCE COUNT: 48 THERE ARE 48 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 18 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 2005:980597 CAPLUS  
 DOCUMENT NUMBER: 143:320451  
 TITLE: Cloning and biochemical characterization of APIT, a new L-amino acid oxidase from *Aplysia punctata*  
 AUTHOR(S): Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd; Goedert, Sigrid; Rudel, Thomas  
 CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute for Infection Biology, Berlin, D-10117, Germany  
 SOURCE: Toxicon (2005), 46(5), 479-489

CODEN: TOXIA6; ISSN: 0041-0101  
PUBLISHER: Elsevier Ltd.  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 29 THERE ARE 29 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 19 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:633950 CAPLUS  
DOCUMENT NUMBER: 141:169975  
TITLE: Purification, cloning and characterization of L-amino  
acid oxidase with cytotoxic activity  
from *Aplysia punctata* and use for the  
diagnosis and treatment of cancer  
INVENTOR(S): Butzke, Daniel; Goedert, Sigrid; Dittrich, Michael;  
Rudel, Thomas; Meyer, Thomas F.  
PATENT ASSIGNEE(S): Max-Planck-Gesellschaft Zur Foerderung Der  
Wissenschaften E.V., Germany  
SOURCE: PCT Int. Appl., 125 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004065415	A2	20040805	WO 2004-EP423	20040120
WO 2004065415	A3	20050120		
W: AE, AE, AG, AL, AL, AM, AM, AM, AT, AT, AU, AZ, AZ, BA, BB, BG, BG, BR, BR, BW, BY, BY, BZ, BZ, CA, CH, CN, CN, CO, CO, CR, CR, CU, CU, CZ, CZ, DE, DE, DK, DK, DM, DZ, EC, EC, EE, EE, EG, ES, ES, FI, FI, GB, GD, GE, GE, GH, GM, HR, HR, HU, HU, ID, IL, IN, IS, JP, JP, KE, KE, KG, KG, KP, KP, KR, KR, KZ, KZ, KZ, LC, LK, LR, LS, LS, LT, LU, LV, MA, MD, MD, MG, MK, MN, MW, MX, MX, MZ, MZ, NA, NI				
EP 1585761	A2	20051019	EP 2004-703388	20040120
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				
PRIORITY APPLN. INFO.:			EP 2003-1232	A 20030120
			EP 2003-26613	A 20031119
			WO 2004-EP423	W 20040120

L1 ANSWER 20 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2004:23311 CAPLUS  
DOCUMENT NUMBER: 140:402168  
TITLE: Characterization of L-amino acid  
oxidase and antimicrobial activity of  
aplysianin a, a sea hare-derived antitumor-  
antimicrobial protein  
AUTHOR(S): Jimbo, Mitsuru; Nakanishi, Fumie; Sakai, Ryuichi;  
Muramoto, Koji; Kamiya, Hisao  
CORPORATE SOURCE: Department of Marine Biochemistry, School of Fisheries  
Sciences, Kitasato University, Iwate, 022-0101, Japan  
SOURCE: Fisheries Science (2003), 69(6), 1240-1246  
CODEN: FSCIEH; ISSN: 0919-9268  
PUBLISHER: Blackwell Publishing Asia  
DOCUMENT TYPE: Journal  
LANGUAGE: English  
REFERENCE COUNT: 21 THERE ARE 21 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 21 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
ACCESSION NUMBER: 2002:937303 CAPLUS

DOCUMENT NUMBER: 138:20443  
 TITLE: Endocrine disruptor screening using DNA chips of endocrine disruptor-responsive genes  
 INVENTOR(S): Kondo, Akihiro; Takeda, Takeshi; Mizutani, Shigetoshi; Tsujimoto, Yoshimasa; Takashima, Ryokichi; Enoki, Yuki; Kato, Ikunoshin  
 PATENT ASSIGNEE(S): Takara Bio Inc., Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 386 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2002355079	A2	20021210	JP 2002-69354	20020313
PRIORITY APPLN. INFO.:			JP 2001-73183	A 20010314
			JP 2001-74993	A 20010315
			JP 2001-102519	A 20010330

L1 ANSWER 22 OF 28 CAPLUS COPYRIGHT 2006 ACS on STN  
 ACCESSION NUMBER: 1993:121236 CAPLUS  
 DOCUMENT NUMBER: 118:121236  
 TITLE: Occurrence of free D-aspartic acid in the circumesophageal ganglia of *Aplysia fasciata*  
 AUTHOR(S): D'Aniello, Antimo; Nardi, Giovanna; Vetere, Amedeo; Ferguson, Graham P.  
 CORPORATE SOURCE: Dep. Biochem., Stn. Zool. "A. Dohrn", Naples, 80121, Italy  
 SOURCE: Life Sciences (1993), 52(8), 733-6  
 CODEN: LIFSAK; ISSN: 0024-3205  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English

L1 ANSWER 23 OF 28 LIFESCI COPYRIGHT 2006 CSA on STN  
 ACCESSION NUMBER: 2006:52712 LIFESCI  
 TITLE: Drug discovery and sea hares: bigger is better  
 AUTHOR: Barsby, T.  
 CORPORATE SOURCE: E-mail: todd.barsby@uoit.ca  
 SOURCE: Trends in Biotechnology [Trends Biotechnol.], (20060100) vol. 24, no. 1, pp. 1-3.  
 ISSN: 0167-7799.  
 DOCUMENT TYPE: Journal  
 TREATMENT CODE: General Review  
 FILE SEGMENT: Q4; A  
 LANGUAGE: English  
 SUMMARY LANGUAGE: English

L1 ANSWER 24 OF 28 LIFESCI COPYRIGHT 2006 CSA on STN  
 ACCESSION NUMBER: 2006:50133 LIFESCI  
 TITLE: Cloning and biochemical characterization of APIT, a new l-amino acid oxidase from *Aplysia punctata*  
 AUTHOR: Butzke, Daniel; Hurwitz, Robert; Thiede, Bernd; Goedert, Sigrid; Rudel, Thomas  
 CORPORATE SOURCE: Department of Molecular Biology, Max Planck Institute for Infection Biology, Schumannstr. 21/22, D-10117 Berlin, Germany; E-mail: rudel@mpiib-berlin.mpg.de  
 SOURCE: Toxicon, (20051000) vol. 46, no. 5, pp. 479-489.  
 ISSN: 0041-0101.  
 DOCUMENT TYPE: Journal  
 FILE SEGMENT: X  
 LANGUAGE: English

SUMMARY LANGUAGE: English

L1 ANSWER 25 OF 28 LIFESCI COPYRIGHT 2006 CSA on STN

ACCESSION NUMBER: 93:108918 LIFESCI

TITLE: Occurrence of free D-aspartic acid in the  
circumoesophageal ganglia of *Aplysia fasciata* .

AUTHOR: D'Aniello, A.; Nardi, G.; Vetere, A.; Ferguson, G.P.

CORPORATE SOURCE: Dep. Biochem., Stazione Zool. "A. Dohrn," Villa Comunale,  
80121 Naples, Italy

SOURCE: LIFE SCI., (1993) vol. 52, no. 8, pp. 733-736.  
ISSN: 0024-3205.

DOCUMENT TYPE: Journal

FILE SEGMENT: N3; Q1

LANGUAGE: English

SUMMARY LANGUAGE: English

L1 ANSWER 26 OF 28 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 2006006435 EMBASE

TITLE: Drug discovery and sea hares: Bigger is better.

AUTHOR: Barsby T.

CORPORATE SOURCE: T. Barsby, Faculty of Science, University of Ontario,  
Institute of Technology, 2000 Simcoe Street North, Oshawa,  
Ont. L1H 7K4, Canada. todd.barsby@uoit.ca

SOURCE: Trends in Biotechnology, (2006) Vol. 24, No. 1, pp. 1-3. .  
Refs: 15

ISSN: 0167-7799 CODEN: TRBIDM

PUBLISHER IDENT.: S 0167-7799(05)00281-7

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; General Review

FILE SEGMENT: 030 Pharmacology  
037 Drug Literature Index

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 2 Feb 2006

Last Updated on STN: 2 Feb 2006

L1 ANSWER 27 OF 28 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 2005402427 EMBASE

TITLE: Cloning and biochemical characterization of APIT, a new  
L-amino acid oxidase from  
*Aplysia punctata*.

AUTHOR: Butzke D.; Hurwitz R.; Thiede B.; Goedert S.; Rudel T.

CORPORATE SOURCE: T. Rudel, Department of Molecular Biology, Max Planck  
Institute for Infection Biology, Schumannstr. 21/22,  
D-10117 Berlin, Germany. rudel@mpiib-berlin.mpg.de

SOURCE: Toxicon, (2005) Vol. 46, No. 5, pp. 479-489. .  
Refs: 29

ISSN: 0041-0101 CODEN: TOXIA6

PUBLISHER IDENT.: S 0041-0101(05)00198-4

COUNTRY: United Kingdom

DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 030 Pharmacology  
037 Drug Literature Index  
052 Toxicology

LANGUAGE: English

SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 6 Oct 2005

Last Updated on STN: 6 Oct 2005

L1 ANSWER 28 OF 28 EMBASE COPYRIGHT (c) 2006 Elsevier B.V. All rights  
reserved on STN

ACCESSION NUMBER: 93043012 EMBASE

DOCUMENT NUMBER: 1993043012  
TITLE: Occurrence of free D-aspartic acid in the  
circumoesophageal ganglia of *Aplysia fasciata*.  
AUTHOR: D'Aniello A.; Nardi G.; Vetere A.; Ferguson G.P.  
CORPORATE SOURCE: Department of Biochemistry, Stazione Zoologica 'Anton  
Dohrn', Villa Comunale, 80121 Napoli, Italy  
SOURCE: Life Sciences, (1993) Vol. 52, No. 8, pp. 733-736. .  
ISSN: 0024-3205 CODEN: LIFSAK  
COUNTRY: United States  
DOCUMENT TYPE: Journal; Article  
FILE SEGMENT: 029 Clinical Biochemistry  
LANGUAGE: English  
SUMMARY LANGUAGE: English  
ENTRY DATE: Entered STN: 7 Mar 1993  
Last Updated on STN: 7 Mar 1993